



PATENT ABSTRACTS OF JAPAN

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(54) **DIVERSITY RECEIVER FOR SPREAD SPECTRUM COMMUNICATION** COPYRIGHT: (C)1992,JPO&Japlo

(57) Abstract:

PURPOSE: To reduce the effect of a multi-path and to attain stable transmission reception by providing a 2nd antenna parted spatially with respect to a 1st antenna and taking the signal of the 2nd antenna non-correlation from the signal of the 1st antenna.

CONSTITUTION: The receiver consists of antennas 13, 14, filters 15, 16, amplifiers 17, 18, a delay device 19 and a synthesizer 20 or the like. Then the distance between the antennas 13, 14 is spatially parted by $\lambda/3$ (λ is a wavelength of a carrier) or over so that an SS reception signal $S_5(t)$ from the antenna 13 and an SS reception signal $S_6(t)$ from the antenna 14 are almost in non-correlation. Thus, the SS signal received by the antenna 14 reaches an independent reception signal level. For example, a phase difference of a carrier in the correlation spike is 0° (synchronization), the synthesized correlation spike is not almost suppressed. Thus, the effect of the multi-path is reduced and stable transmission reception is attained.

